ML1125 Integrated Product Development, Project Course 13.0 credits

Integrerad produktutveckling, projektkurs

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for ML1125 valid from Autumn 2014

Grading scale

A, B, C, D, E, FX, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

After the course, the student should be able to:

- Develop his own and the organisation's working method in product development and suggest improvements for a more efficient work/working method
- Develop and carry out a project plan for product development projects
- Identify and evaluate his own behaviour in working groups and relate this to the dynamics of the working group
- Identify and apply relevant knowledge and collect information to be able to solve product development problems
- Identify, prioritise and apply relevant design parameters for the product development, such as: Customer and user viewpoints, legal requirements, environmental impact and production aspects
- Present different problems and their solutions, orally, in writing and by means of relevant physical models
- Identify and apply different behaviour and standpoints regarding ethnicity, diversity, ethics, gender, etc.
- Identify and consider errors and risks related to technical and organizational problems

Course contents

Industrial development project with company.

Examples of topics that may be addressed are: Customer and user viewpoints, market demands, teamwork, project planning, project management, environmental product development,concept generation, valuation and support methods in product development and product design.

Disposition

The course is based on a project assignments provided by companies. The students organise and carry out the work.

Exercises
Lectures
Discussions

Course literature

Eventuell litteratur meddelas senast en månad före kursstart

Examination

- PRO1 - Project, 6.5 credits, grading scale: A, B, C, D, E, FX, F
- RED1 - Presentation, 6.5 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Other requirements for final grade

Approved intermediate presentation (RED1; 6.5 credits); grading scale P/F
Approved project assignment (PRO1; 6.5 credits); grading scale P/F

Final grade, grading scale A-F, based on criteria for the course elements. These will be announced at the start of the course.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.